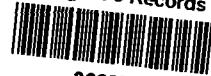


LS-8410-01A

IL-0346-05

EPA Region 5 Records Ctr.



362872

INSPECTION REPORT
FOR
EAGLE ZINC CO.
HILLSBORO, ILLINOIS
ILD980606941
R0-8410-01A
FEBRUARY 21, 1986



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

MEMORANDUM

DATE: February 21, 1986
TO: File
FROM: Ronald Bock
SUBJECT: Illinois/R05-8410-01A/IL0346
Hillsboro/Eagle Zinc Company
ILD980606941

Eagle Zinc Company is involved in the production of zinc oxide from impure zinc oxide. The resulting product is sold primarily to the rubber industry for use during the rubber vulcanization process. The company is a division of T.L. Diamond, Inc. and was purchased from Sherwin-Williams in 1984. Prior to this, Sherwin-Williams purchased the facility from Eagle Pitcher Company in 1980. Eagle Pitcher had owned and operated the company from its inception, sometime in the 1920's.

During Sherwin-Williams ownership, they filed an EPA form 8900-1 Notification of Hazardous Waste Site in accordance with Section 103c of CERCLA, indicating that waste slag from the process was stockpiled over 5-10 acres of the company property. Because of this, the Illinois EPA submitted a Potential Hazardous Waste Site Preliminary Assessment to the U.S. EPA, and the site was subsequently assigned to FIT for a Site Inspection.

On February 10, 1986, FIT visited Eagle Zinc Company in Hillsboro, Illinois and performed a Site Inspection, which consisted of an interview with a site representative followed by a visual inspection of the process and waste disposal practices. The zinc oxide manufactured at Eagle Zinc Company is produced by a pyrometallurgical process. Impure zinc oxide is fed into a rotary furnace with coal

and heated to approximately 2400°C. At this temperature pure zinc oxide sublimes and is fed to and recovered in a baghouse. The residual slag, which consists of zinc silicates, zinc ferrites, and iron silicates is removed from the furnace and disposed of in piles on company property.

The disposed slag is a solid which is insoluble in water, so migration of the wastes to groundwater is very unlikely. However, the surface topography slopes considerably to the southwest, toward a pond located approximately 1/4 mile west-southwest from the zinc slag piles. All surface runoff from the property appears to drain toward this pond. There is a concrete break wall bordering the pond on the east side of the pond which regulates runoff flowing into the pond. This pond in turn discharges into a tributary of Shoal Creek Middle Fork. Sampling done by the IEPA on March 23, 1982 showed a confirmed release of zinc migrating from the pond to this tributary (See Section 5). However, the confluence of this tributary with Shoal Creek is downstream of a surface water intake located in Glenn Shoals Lake, which is used for municipal water supply for the communities of Hillsboro, Schram City, and Taylor Springs. Therefore, since groundwater contamination is unlikely due to the solid, insoluble nature of the wastes, and since surface water contamination occurs downstream from the municipal intake, the threat to the surrounding population appears to be minimal.

Several comments were made in the IEPA Preliminary Assessment Executive Summary which need to be clarified. First, it was stated that Sherwin-Williams initiated a clean-up activity in 1983. According to Eagle Zinc Company, this was not a remedial activity. The purpose was to recover high zinc bearing dross which had been accumulating on the property and was of considerable value. Secondly, this facility also used to be engaged in the production of lead oxide (white lead) for use in paint pigments. This production occurred during the ownership of Eagle Pitcher, and ceased about 20 years ago due to federal regulations banning white lead from paint.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD 980 636 741

II SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

EAGLE ZINC CO.

03 CITY

Hillside

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

Rte. 16E (P.O. BOX 340)

04 STATE

IL

05 ZIP CODE

62049

06 COUNTY

Montgomery

07 COUNTY CODE

135

08 CONG DIST

21

09 COORDINATES

LATITUDE

39° 10' 36"

LONGITUDE

89° 29' 00"

10 TYPE OF OWNERSHIP (Check one)

A. PRIVATE B. FEDERAL

C. STATE D. COUNTY

E. MUNICIPAL

F. OTHER

G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION

08/10/86

02 SITE STATUS

ACTIVE
 INACTIVE

03 YEARS OF OPERATION

1914 present

UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

A. EPA

B. EPA CONTRACTOR

Ecology and Environment, Inc.

(Name of firm)

C. MUNICIPAL

D. MUNICIPAL CONTRACTOR

(Name of firm)

E. STATE

F. STATE CONTRACTOR

(Name of firm)

G. OTHER

(Specify)

05 CHIEF INSPECTOR

Ronald Bock

06 TITLE

FIT - Chemical Engineer

07 ORGANIZATION

E+E

08 TELEPHONE NO

(312) 663-9415

09 OTHER INSPECTORS

David Curnock

10 TITLE

FIT - Agronomist/Biologist

11 ORGANIZATION

E+E

12 TELEPHONE NO

(512) 663-9415

13 SITE REPRESENTATIVES INTERVIEWED

Art Martel

14 TITLE

Plant Manager

15 ADDRESS

Eagle Zinc Co.
Division T.L. Diamond - PO BOX 340

16 TELEPHONE NO

(217) 532-3971

Max W. Page

Technical-Supt.

"

() "

17 ACCESS GAINED BY

(Check one)

PERMISSION
 WARRANT

18 TIME OF INSPECTION

1:00 PM

19 WEATHER CONDITIONS

Sunny, cold, breezy ~ 20°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT

Steve Savage

02 OF (Agency/Organization)

Mgr.- IEPA Central Region

03 TELEPHONE NO.

(217) 731-6372

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

Ronald Bock

05 AGENCY

—

06 ORGANIZATION

E+E / FIT

07 TELEPHONE NO.

(312) 663-7415

08 DATE

02/21/86
MONTH DAY YEAR



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION**

I. IDENTIFICATION

01 STATE IL	02 SITE NUMBER ILD980606741
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II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)		02 WASTE QUANTITY AT SITE <small>(Measures of waste quantities must be independent)</small>	03 WASTE CHARACTERISTICS (Check all that apply)		
<input checked="" type="checkbox"/> A SOLID	<input type="checkbox"/> E SLURRY	TONS 1000	<input checked="" type="checkbox"/> I A TOXIC	<input type="checkbox"/> L E SOLUBLE	<input type="checkbox"/> M I HIGHLY VOLATILE
<input checked="" type="checkbox"/> B POWDER/FINES	<input type="checkbox"/> F LIQUID	CUBIC YARDS _____	<input type="checkbox"/> J CORROSIVE	<input type="checkbox"/> K INFECTIOUS	<input type="checkbox"/> N J EXPLOSIVE
<input type="checkbox"/> C SLUDGE	<input type="checkbox"/> G GAS	NO OF DRUMS _____	<input type="checkbox"/> D RADIOACTIVE	<input type="checkbox"/> L G FLAMMABLE	<input type="checkbox"/> O K REACTIVE
<input type="checkbox"/> D OTHER <small>(Specify: _____)</small>			<input checked="" type="checkbox"/> D PERSISTENT	<input type="checkbox"/> H IGNITABLE	<input type="checkbox"/> P L INCOMPATIBLE
					<input type="checkbox"/> Q M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SO	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	1000	tons	See description below

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers.)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

The only waste generated at this site is zinc slag residue from the pyrometallurgic process used to produce Zinc Oxide (ZnO) from impure Zinc Oxide. In this process, the impure ZnO is heated to approx 2400°C in a rotary furnace using coal as heat source.

The ZnO sublimes and is collected in a baghouse, while the slag remains. The process presently produces about 150 tons/month product. There is presently approximately 1000 tons of zinc slag stocked in piles on property. The composition of the waste slag is primarily iron silicates, zinc silicates, and zinc ferrites. Mr. Page supplied us with an approximate elemental analysis of the slag:

Zn - 3-30%

Si - 10%

Fe - 2-3%

Pb - <.001% (insignificant)

V. FEEDSTOCKS (See Appendix for CAS Numbers.)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Impure Zinc Oxide		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ST interview with Art Martel & Max Page of Eagle Zinc Co. 2-10-86.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD750606741

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED

395

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

The waste slag is disposed in piles on Eagle Zinc Property. The potential exists for this waste to migrate to groundwater, which is used as a drinking supply by a small number of residents in the area. However, the potential for contamination is low due to the nature of the wastes; the slag is a solid composed primarily of zinc silicates, iron silicates, and zinc ferrites, all insoluble in water.

01 B SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED

0

02 OBSERVED (DATE: 3-23-82)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

Sampling done by IEPA/DWPC on above date showed contamination of zinc from site migrating from surface water pond at SW part of property to creek which feeds into Shoal Creek System, which is used by area as municipal drinking water supply. This creek feeds into Shoal Creek downstream of intakes; therefore population affected is only recreational - not drinking water.

01 C CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED

5750

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

Site inspection observations revealed zinc oxide dust covering certain buildings and portions of the property. Since the product is a fine dust, there is a potential for air contamination. The site is monitored closely by the IEPA - Air Pollution Division.

01 D FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

N/A

01 E DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED

2750

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

See C. Site is partially fenced.

01 F CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED

5-10

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

Since wastes are dumped in piles on property, potential exists for contamination. However, since wastes are solid and insoluble in water, it is unlikely that wastes migrate to soils.

01 G DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED

395

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

See A+B.

01 H WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED

18

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

See C.

01 I POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED

2750

02 OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

 POTENTIAL ALLEGED

See D.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL	02 SITE NUMBER ILD930606941
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II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued.)

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

None. Observed or detected.

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

Since surface water contamination feeds Shab Creek system, there is potential for damage to fauna.

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

Site K.

01 M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Fugitive, Standing liquids, Leaking drums)

02 OBSERVED (DATE **3-23-82**) POTENTIAL ALLEGED

03 POPULATION POTENTIALLY AFFECTED **0**

04 NARRATIVE DESCRIPTION

Surface water runoff from waste piles contributed to contamination of creek from pond overflow. See Sec.B.

01 N. DAMAGE TO OFFSITE PROPERTY

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

None. Wastes are solid piles which would not migrate to off-site property.

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

None. Reported.

01 P. ILLEGAL/UNAUTHORIZED DUMPING

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

None. Reported.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None.

III. TOTAL POPULATION POTENTIALLY AFFECTED: **5750 (AIR)**

IV. COMMENTS

Groundwater contamination appears to be of little concern since wastes are insoluble and would not migrate to water. Site topography suggests physical movement of surface water runoff wastes toward pond at SW of property. Overflow from this pond feeds a creek which feeds into Shab Creek Middle Fork downstream of intakes.

V. SOURCES OF INFORMATION (One specific reference e.g., state files, sample analysis reports)

Manager, Field Operations Section / DWPC, from: Timothy B. Kludge Subject: Sherwin-Williams Co. - Westwater Dr. Emergency Reconnaissance Inspection Date: March 23, 1982
Topographic Map - Hillboro Quadrangle 7.5"



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER ILD780606741

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <i>(Check all that apply)</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input checked="" type="checkbox"/> C AIR 72100673	—	6-7-87		Covers Total Particulates
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G. STATE <i>(Specify)</i>				
<input type="checkbox"/> H. LOCAL <i>(Specify)</i>				
<input type="checkbox"/> I. OTHER <i>(Specify)</i>				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL <i>(Check all that apply)</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>(Check all that apply)</i>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT	i000	TONS	<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	10
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <i>(Specify)</i>	
<input type="checkbox"/> I. OTHER <i>(Specify)</i>				
07 COMMENTS	<p>Waste slag is disposed of in piles near rear of property. The site slopes considerably to the southwest, and all surface water run-off feeds a pond on SW corner of property. There is a concrete retaining wall upstream of pond. Outflow from this pond feeds a tributary to Shoals Creek. Middle Fork. This outfall to Shoals Creek is downstream of surface water intakes.</p>			

IV. CONTAINMENT

01 CONTAINMENT OF WASTES <i>(Check one)</i>	<input type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input checked="" type="checkbox"/> C. INADEQUATE, POOR	<input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
---	--	--------------------------------------	---	--

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC	<p>There are no liners, diking of wastes - they are just disposed of in piles.</p>
--	--

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
02 COMMENTS		

VI. SOURCES OF INFORMATION <i>(Cite specific references e.g. state files, sample analysis, reports)</i>
<p>SI interview with Mr. Art Martel and Max Page, of Eagle Zinc Co. 2-10-86 SI field notes</p>



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA**

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD9806C6741

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small>		02 STATUS			03 DISTANCE TO SITE	
SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A.	B.
COMMUNITY	A. <input checked="" type="checkbox"/> B. <input type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>	1.5	(mi)
NON-COMMUNITY	C. <input type="checkbox"/> D. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	1/2	(mi)

III. GROUNDWATER01 GROUNDWATER USE IN VICINITY (Check one)

- A. ONLY SOURCE FOR DRINKING B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)
- C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)
- D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	395	03 DISTANCE TO NEAREST DRINKING WATER WELL	0.5	(mi)
04 DEPTH TO GROUNDWATER	35 (ft)	05 DIRECTION OF GROUNDWATER FLOW	unk	06 DEPTH TO AQUIFER OF CONCERN 35 (ft)

06 DEPTH TO AQUIFER OF CONCERN

07 POTENTIAL YIELD OF AQUIFER
70 gpm
(ft/day)08 SOLE SOURCE AQUIFER
 YES NO09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Most of area is on surface water supply. There are two small areas to the northeast of site which have private wells. Plus all residents outside Hillsboro, Schram City, & Taylor Springs City Limits use private wells.

10 RECHARGE AREA

<input type="checkbox"/> YES	COMMENTS
<input checked="" type="checkbox"/> NO	

11 DISCHARGE AREA

<input type="checkbox"/> YES	COMMENTS
<input checked="" type="checkbox"/> NO	

IV. SURFACE WATER01 SURFACE WATER USE (Check one)

- A. RESERVOIR, RECREATION
DRINKING WATER SOURCE B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES C. COMMERCIAL, INDUSTRIAL D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

1/4

(mi)

1.0

(mi)

0

(mi)

Tributary to Shoal Creek - Mid Fork

Shoal Creek - Middle Fork

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 2750
NO. OF PERSONSTWO (2) MILES OF SITE
B. 4750
NO. OF PERSONSTHREE (3) MILES OF SITE
C. 6160
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

2000 ft.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

1250

04 DISTANCE TO NEAREST OFF-SITE BUILDING

1500 ft.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site is located in East Hillsboro, IL. It is bordered on the north by rural area, to the west and south by Hillsboro Residential area, and to the southeast by Schram City. Directly to the east is Hillsboro Glass Company.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER ILD930606941

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one):

- A $10^{-6} - 10^{-8}$ cm/sec B. $10^{-4} - 10^{-6}$ cm/sec C $10^{-4} - 10^{-3}$ cm/sec D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one):

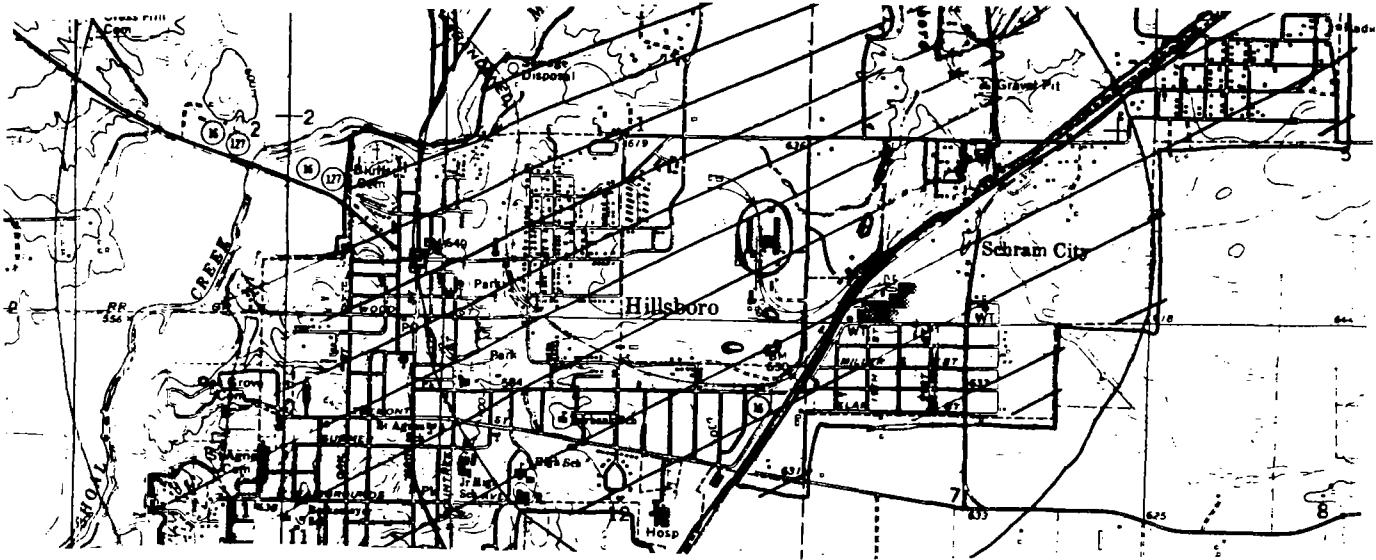
- A. IMPERMEABLE (Less than 10^{-6} cm/sec) B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK 125 (ft)	04 DEPTH OF CONTAMINATED SOIL ZONE 0 (ft)	05 SOIL pH unk	
06 NET PRECIPITATION 4.0 (in)	07 ONE YEAR 24 HOUR RAINFALL 3.0 (in)	08 SLOPE SITE SLOPE 5-7 %	DIRECTION OF SITE SLOPE S-SW TERRAIN AVERAGE SLOPE 5-7 %
09 FLOOD POTENTIAL SITE IS IN unk YEAR FLOODPLAIN	10 N/A	<input type="checkbox"/> SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY	
11 DISTANCE TO WETLANDS (5 acre minimum): ESTUARINE A >3 (mi)	OTHER B >3 (mi)	12 DISTANCE TO CRITICAL HABITAT (of endangered species) ENDANGERED SPECIES: NONE	

13 LAND USE IN VICINITY

DISTANCE TO:	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS	
COMMERCIAL/INDUSTRIAL		PRIME AG LAND	AG LAND
A 0.5 (mi)	B 1/2 (mi)	C N/A (mi)	D 3/4 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Site specific references, e.g., state files, sample analysis, reports)

U.S. Climatic Atlas

Handbook of Illinois Stratigraphy - ISGS Bulletin No. 95

Groundwater Withdrawals from Aquifers in Illinois with Emphasis of Public Water Supply Wells.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD 7306 00-741

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		NO SAMPLES COLLECTED	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNL1	No Readings above background
Rid Mini	No Readings above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Ecology + Environment</u> <small>(Name of organization or individual)</small>
03 MAPS: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>Ecology + Environment - Region IV Chicago</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EVE Site Safety Log - 2-10-86



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION**

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD930606241

II. CURRENT OWNER(S)

01 NAME <i>Eagle Zinc Co.</i>	02 D+B NUMBER	08 NAME <i>T.L. Diamond & Co. Inc.</i>	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) <i>P.O. Box 340</i>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY <i>Hillsboro</i>	06 STATE <i>IL</i>	07 ZIP CODE <i>62049</i>	12 CITY <i>New York</i>
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME <i>Sherwin-Williams Chemical Co.</i>	02 D+B NUMBER	01 NAME <i>Sherwin-Williams</i>	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) <i>LINK,</i>	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY <i>Hillsboro</i>	06 STATE <i>IL</i>	07 ZIP CODE <i>62049</i>	05 CITY
01 NAME <i>Eagle Pitcher Co.</i>	02 D+B NUMBER	01 NAME <i>SAME</i>	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.) <i>P.O. Box 340</i>	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI interview w/ Art Martel + Max Page 2-12-86



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD930606941

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Eagle Zinc Co.		T.L. Diamond & Co., Inc.	

03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
P.O. Box 340			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Hillsboro	IL		New York		

08 YEARS OF OPERATION	09 NAME OF OWNER	
1934 - present	T.L. Diamond & Co., Inc.	

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Sherwin-Williams Chemical Co.		Sherwin-Williams Co. Inc.	

03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Hillsboro	IL	62049			

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD	
1930 - 1934	unknown	

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Eagle-Picher		SAME	

03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
F.C. Box 340			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
Hillsboro	IL	62049			

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD	
1914-1930	unknown	

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD	

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

ST interview with Mr. Art Martel & Max Page - 2-10-86



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER ILD980636741

II. ON-SITE GENERATOR

01 NAME <i>Eagle Zinc Co.</i>	02 D+B NUMBER			
03 STREET ADDRESS (P O Box, RFD#, etc.) <i>F.O. BOX 340</i>	04 SIC CODE			
05 CITY <i>Hillsboro</i>	06 STATE IL	07 ZIP CODE		

III. OFF-SITE GENERATOR(S)

01 NAME NONE	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME NONE	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection Interview 2-10-86.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE IL 02 SITE NUMBER ILD980606741

II. PAST RESPONSE ACTIVITIES

- 01 A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A

- 01 Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____ 03 AGENCY _____

N/A



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

IL ILD980606741

II PAST RESPONSE ACTIVITIES (Continued)

01 R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 S. CAPPING/COVERING
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 T. BULK TANKAGE REPAIRED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 V. BOTTOM SEALED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 W. GAS CONTROL
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 X. FIRE CONTROL
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 Y. LEACHATE TREATMENT
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 Z. AREA EVACUATED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 2. POPULATION RELOCATED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

NONE

02 DATE _____ 03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)

N/A



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER ILD93064741

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NONE

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

(Attachment) MEMORANDUM

B

DATE: March 23, 1982

TO: Field Operations Section & Records Unit/DWPC

FROM: Timothy R. Kluge, Region V Springfield, FOS/DWPC TR

SUBJECT: Sherwin-Williams Chemical Company -- Wastewater Discharge
(Hillsboro, Montgomery County) Reconnaissance Inspection

Interviewed: Pete Meehan, General Manager
Dave Lewis, Site Manager
Rich Mulcahy, Former Site Manager

On the above date, I revisited the Sherwin-Williams site to collect additional samples and document possible water quality violations caused by runoff from the zinc smelting spoil on the site. Previous site visits had been made on September 22 and November 19, 1981, and limited sampling indicated possible cadmium, iron, lead, zinc, and copper violations from site runoff.

Sample locations are shown on the attached area map, and a tabulation of the sample results is also attached. The samples indicate that discharges from the site contribute to water quality violations for iron and zinc. In both cases, the samples taken in a location believed to be upstream of any plant runoff contained concentrations in excess of water quality standards. Since there is no other known sources of these contaminants in the area, this location may also receive runoff from the plant site.

Based on this and previous surveys, runoff from the Sherwin-Williams plant site appears to be causing or contributing to water quality violations for dissolved metals. In addition, orange deposits in the pond on the plant property and in the stream downstream of the plant appear to be precipitated iron, violating Rule 203(a) of Chapter 3. A letter will be sent to the company noting these apparent violations.

It was also learned during the visit that sanitary wastes from the plant are treated in a septic system with no reported surface discharge.

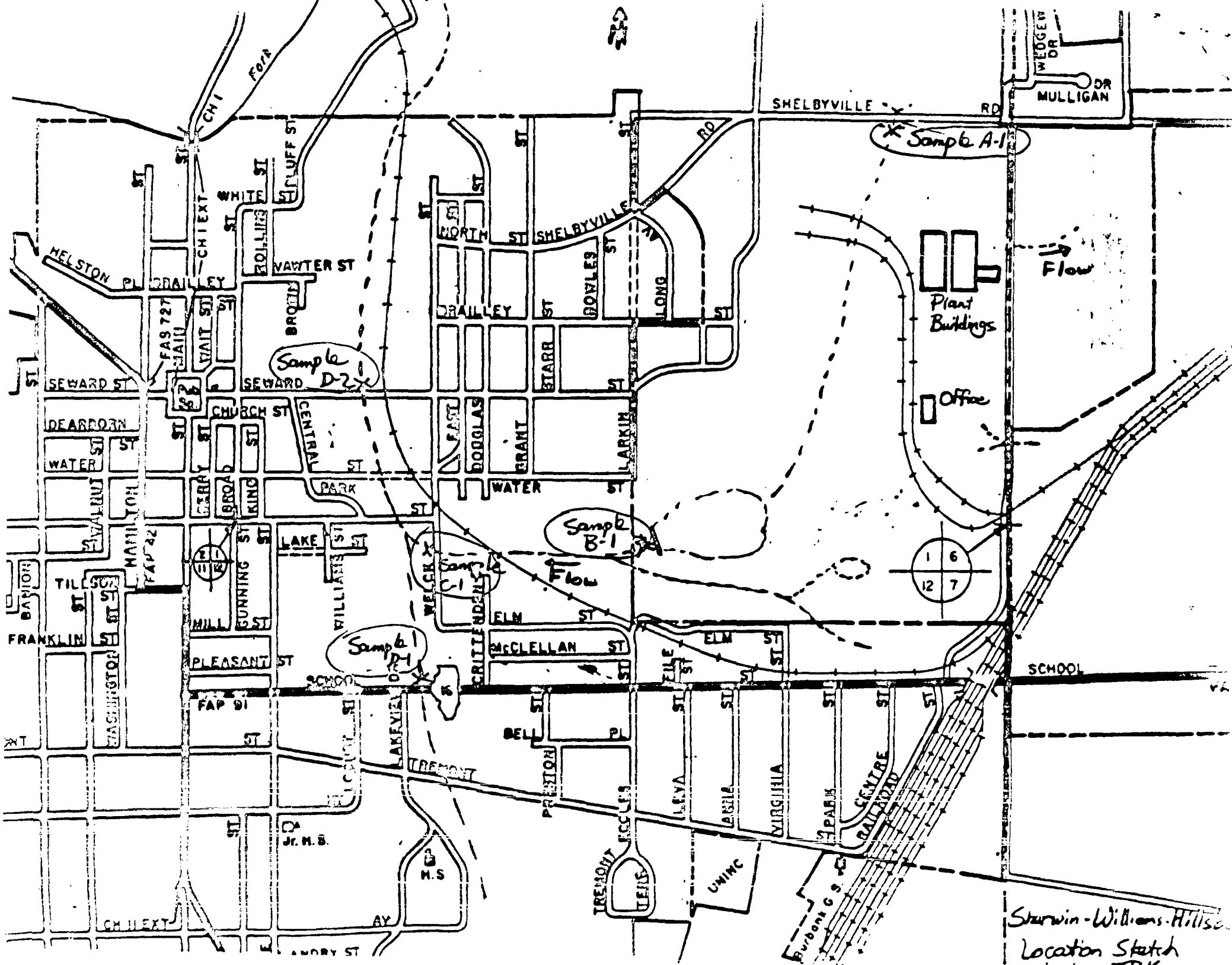
JJF/JKF/TRK/mlh
6-7-82

cc: Region V Springfield

Sherwin-Williams Sampling

March 23, 1982

<u>Parameter</u>	<u>A-1</u>	<u>B-1</u>	<u>C-1</u>	<u>D-1</u>	<u>D-2</u>	<u>Rule 203(f)</u>
TS/EC	300	460	580	300	380	1000
pH	7.1	7.5	7.1	7.7	7.5	6.5-9
R.O.E.	329	514	650	321	450	-----
Arsenic	0.001	0.001	<0.001	0.001	<0.001	1.0
Barium	0.1	0.1	<0.1	0.1	0.1	5.0
Boron	0.2	0.3	0.5	0.3	0.4	1.0
Cadmium	<0.005	<0.005	0.01	<0.005	0.005	0.05
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Chromium (Tot.)	<0.05	<0.05	<0.05	<0.05	<0.05	1.05
Chromium (Hex.)	0.0	0.0	0.0	0.0	0.0	0.05
Iron (Total)	2.3	1.8	2.8	1.9	0.68	1.0
Lead	<0.05	<0.05	<0.05	<0.05	<0.05	0.1
Manganese	1.7	0.37	0.46	0.22	0.49	1.0
Nickel	<0.05	<0.05	<0.05	<0.05	<0.05	1.0
Selenium	<0.001	<0.001	<0.001	<0.001	<0.001	1.0
Silver	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Zinc (Total)	3.6	2.2	8.7	<0.05	6.3	1.0



FIELD PHOTOGRAPHY LOG SHEET

Page 1DATE 2-10-86TIME 2:30 A.M. (P.M.)DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNWWEATHER cloudy - 20°FSITE Eagle Zinc Co.TDD# R05-8410-01APHOTOGRAPHED BY:
Dave CurnockSAMPLE ID# (if applicable)
N/ADESCRIPTION: View of Zinc Slag PilesDATE 2-10-86TIME 2:40 A.M. (P.M.)DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNWWEATHER cloudy, 20°FSITE Eagle Zinc Co.TDD# R05-8410-01APHOTOGRAPHED BY:
Dave CurnockSAMPLE ID# (if applicable)
N/ADESCRIPTION: View of rusted, empty drums on-site

FIELD PHOTOGRAPHY LOG SHEET

Page 2DATE 2-10-86TIME 2:45 A.M. P.M.DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNWWEATHER cloudy 20°FSITE Eagle Zinc Co.TDD# R05-8410-01A

PHOTOGRAPHED BY:

Dave CurnockSAMPLE ID# (if applicable)
N/ADESCRIPTION: carbon/coal settling lagoonDATE 2-10-86TIME 2:50 A.M. P.M.DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNWWEATHER cloudy -20°FSITE Eagle ZincTDD# R05-8410-01APHOTOGRAPHED BY:
DAVE CURNOCKSAMPLE ID# (if applicable)
N/ADESCRIPTION: view of outfall/runoff from settling lagoon

FIELD PHOTOGRAPHY LOG SHEET

Page 3DATE 2-10-86TIME 2:55 A.M. P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER cloudy - 20°FSITE Eagle Zinc Co.TDD# R05-8410-01A

PHOTOGRAPHED BY:

Dave Curnock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: Surface water pond ~ 1/4 mile west/sw of site w/ Eagle Zinc Co. in the backgroundDATE 2-10-86TIME 3:00 A.M. P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER cloudy - 20°FSITE Eagle Zinc Co.TDD# R05-8410-01A

PHOTOGRAPHED BY:

Dave Curnock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: View of additional Zinc Slag Piles

FIELD PHOTOGRAPHY LOG SHEET

Page 4

DATE 2-10-86

TIME 3:10 A.M. P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER cloudy 20°F

SITE Eagle Zinc Co.

TDD# R05-8410-01A

PHOTOGRAPHED BY:

Dave Curnock

SAMPLE ID# (if applicable)
N/ADESCRIPTION: View of rotary furnace where Zinc Oxide is sublimed
from impure ZnO.

DATE 2-10-86

TIME 3:20 A.M. P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER cloudy 20°F

SITE Eagle Zinc Co.

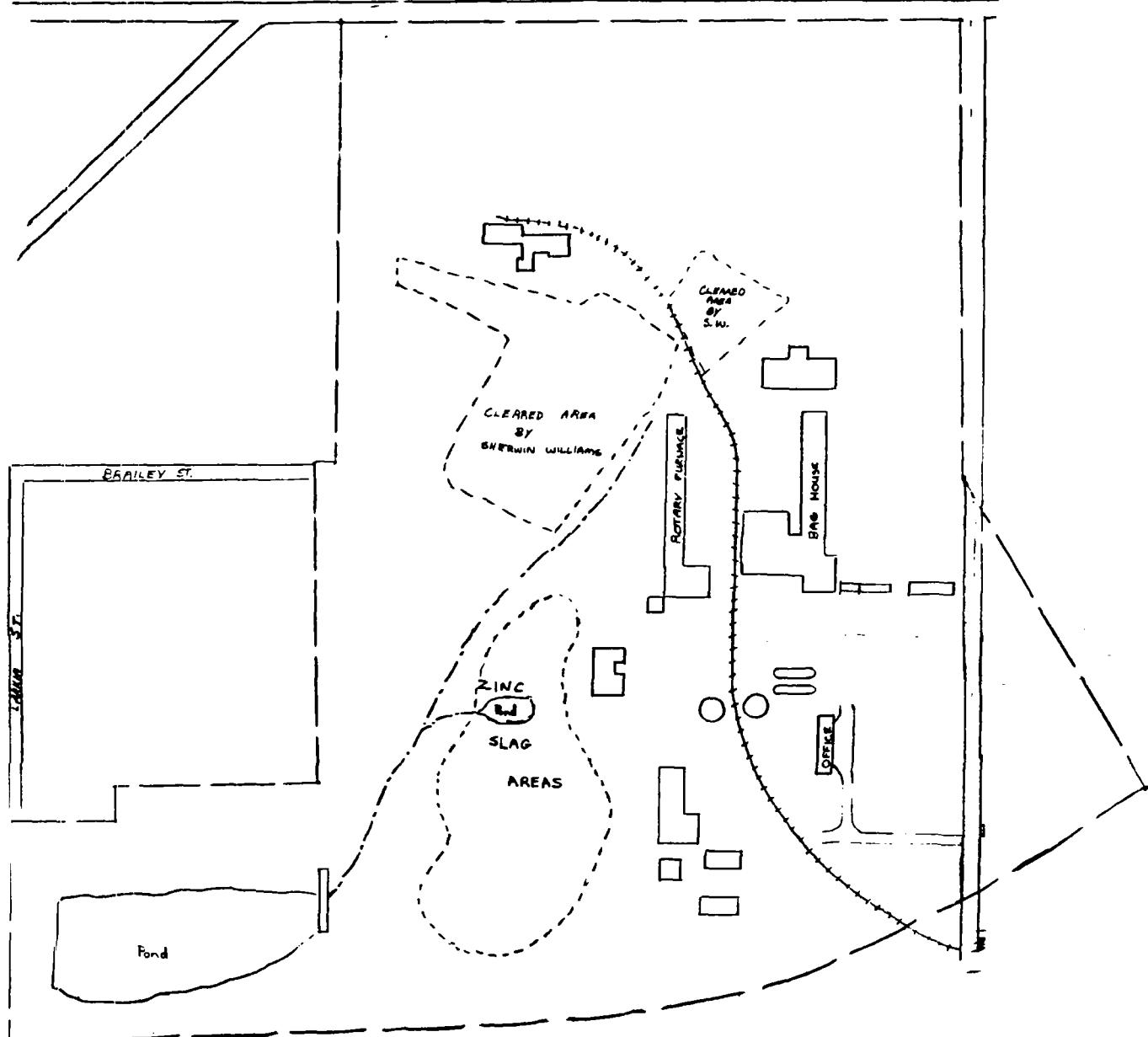
TDD# R05-8410-01A

PHOTOGRAPHED BY:

Dave Curnock

SAMPLE ID# (if applicable)
N/A

DESCRIPTION: view of baghouse



ecology and environment, Inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: N A

APPROVED BY:

DATE: 2/25/86

DRAWN BY CURNOCK

REVISED NA

Eagle Zinc Company
Hillsboro, Illinois

DRAWING NUMBER

R05-8410-01A IL0346

1

